COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF BEAVER-ELKHORN WATER DISTRICT FOR (1) CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY - CONSTRUCTION -PHASE III WATER LINE EXTENSIONS PURSUANT TO KRS 278.020(1); (2) AUTHORIZATION OF BORROWING FROM THE COMMONWEALTH OF KENTUCKY, KENTUCKY INFRASTRUCTURE CASE NO. AUTHORITY WATER RESOURCES LOAN FUND -95-200 PHASE III PURSUANT TO KRS 278.300 AND GRANT OF \$600,000 AND FROM ABANDONED MINE LAND - \$540,000; (3) AUTHORITY TO INCREASE RATES PURSUANT TO 807 KAR 5:001, SECTION 10; AND (4) APPROVAL OF REVISED TARIFF

ORDER

Beaver-Elkhorn Water District ("Beaver-Elkhorn") filed its application on June 13, 1995 for a Certificate of Public Convenience and Necessity to construct a waterworks improvement project, for approval of financing, and for an adjustment to its retail rates. Commission Staff, having performed a limited financial review of Beaver-Elkhorn's operations, has prepared the attached Staff Report containing Staff's findings and recommendations regarding the proposed rates. All parties should review the report carefully and provide any written comments or requests for a hearing or informal conference no later than 15 days from the date of this Order.

IT IS THEREFORE ORDERED that all parties shall have no more than 15 days from the date of this Order to provide written comments regarding the attached Staff Report or requests for a hearing or informal conference. If no request for a hearing or informal conference is received, this case will be submitted to the Commission for a decision.

Done at Frankfort, Kentucky, this 7th day of December, 1995.

PUBLIC SERVICE COMMISSION

For the Commission

ATTEST:

Executive Director

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF BEAVER-ELKHORN WATER DISTRICT FOR (1) CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY - CONSTRUCTION - PHASE III WATER LINE EXTENSIONS PURSUANT TO KRS 278.010 (1); (2) AUTHORIZATION OF BORROWING FROM THE COMMONWEALTH OF KENTUCKY, KENTUCKY INFRASTRUCTURE AUTHORITY WATER RESOURCES LOAN FUND - PHASE III PURSUANT TO KRS 278.300 AND GRANT OF \$600,000 AND FROM ABANDONED MINE LAND - \$540,000; (3) AUTHORITY TO INCREASE RATES PURSUANT TO 807 KAR 5:001; SECTION 10; AND (4) APPROVAL OF REVISED TARIFF

) CASE NO. 95-200

STAFF REPORT

Prepared By: Mark C. Frost Public Utility Financial Analyst, Chief Water and Sewer Revenue Requirements Branch Financial Analysis Division

Prepared By: John Geoghegan Public Utility Rate Analyst, Chief Communications, Water and Sewer Rate Design Branch Rates and Research Division

STAFF REPORT

QΝ

BEAVER-ELKHORN WATER DISTRICT

CASE NO. 95-200

Beaver-Elkhorn Water District ("Beaver-Elkhorn") submitted its application on May 1, 1995 for a Certificate of Convenience and Necessity ("Certificate") to construct a \$4,349,011 waterworks improvement project, for approval of financing, and for an increase in rates. However, the application was not considered filed until June 13, 1995. The Commission issued an Interim Order on September 15, 1995 granting the Certificate and approving the proposed plan of financing.

In Order to evaluate the requested increase, the Commission Staff ("Staff") performed a limited financial review of Beaver-Elkhorn's test period operations for the 12 month period ending February 28, 1995. The scope of the review was limited to obtaining information as to whether the test-period operating revenues and expenses were representative of normal operations. Insignificant or immaterial discrepancies were not pursued and are not addressed herein.

Mark Frost of the Commission's Division of Financial Analysis performed the limited review on September 27, 1995 and October 4, 1995. Mr. Frost is responsible for the preparation of this Staff Report except for the determination of normalized Revenue from Water Sales, Rate Design, and Attachment D, which were prepared by John Geoghegan of the Commission's Division of Rates and Research.

Staff Report PSC Case No. 94-200 Page 2 of 3.

A comparison of Beaver-Elkhorn's actual and pro forma operations is shown in Attachment A. Based upon Staff's recommendations, Beaver-Elkhorn's operating statement would appear as set forth in Attachment B.

Beaver-Elkhorn originally estimated that its Phase III construction project would extend service to 989 new customers. Using this estimate, Beaver-Elkhorn arrived at its normalized revenue from rates of \$913,590.

However, when the Phase III construction bids were received, the scope of the project was cut, which resulted in a decrease to the number of new customers from 989 to 747. This decrease in new customers coupled with the outcome of Staff's billing analysis resulted in normalized revenue from rates of \$838,802, a decrease of \$74,788 from Beaver-Elkhorn's estimate.

Using its normalized revenue from rates of \$913,590, Beaver-Elkhorn determined that its pro forms operations support a revenue requirement of \$1,058,842, an increase in its revenues from rates of \$119,370, as presented in Attachment C. As shown in that same Attachment, Staff's recommended operations, which includes normalized revenue from rates of \$838,802, result in a total revenue requirement of \$1,048,073, an increase in revenue from rates of \$183,389.

Staff's recommended increase is \$64,019 greater than the increase requested by Beaver-Elkhorn. This disparity can be

Staff Report PSC Case No. 94-200 Page 3 of 3.

attributed to the differences between normalized revenues and total revenue requirements.

The rates contained in Attachment D will achieve Staff's recommended level of revenue from rates of \$1,022,191.2 Although the rates recommended by Staff are higher than those proposed by Beaver-Elkhorn, the increase was necessary because Phase III will have 242 less customers than Beaver-Elkhorn originally anticipated, resulting in less revenue from the project.

Bignatures

Prepared By: Mark C. Frost
Public Utility Financial
Analyst, Chief
Water and Sewer Revenue
Requirements Branch
Financial Analysis Division

Prepared By: Workh Geoghegan
Public Utility Rate
Analyst, Chief
Communications, Water and
Sewer Rate Design Branch
Rates and Research Division

1	Normalized Revenue Difference Total Revenue Requirement Difference:	\$ 74,788
	\$1,048,073 - \$1,058,842 = Net Difference	- 10,769 8 64,019
2	Total Revenue Requirement	\$ 1,048,073 19,922
	Less: Other Operating Revenue Interest Income Revenue Requirement from Rates	- 5,960 \$ 1,022,191

ATTACHMENT A STAFF REPORT CASE NO. 95-200 BEAVER-ELKHORN'S REQUESTED OPERATIONS

	Actual Test Peded Operations	Pro Forma Adjustments	Foot- note Ref.	Pro Forma Operations
Operating Revenues:	************	***************************************	*******	****************
Water Sales	\$643,072	\$270,518		\$913,590
Service Fees & Penalties	17,730	0		17,730
Sprinklera	1,298	0		1,298
Miscellaneous Income	894	0		894
Interest Income	5,980	0	_	5,960
Total Operating Revenues	\$868,954	\$270,518	_	\$939,472
Operating Expenses:			_	
Operations Labor - Pumping	\$ 59,191	\$0		\$ 59,191
Fuel for Power Production	3,532	0		3,532
Fuel for Power Pumping	36,050	0		36,050
Operational Supplies & Exp - Pumping	11,324	0		11,324
Chemicals	22,615	0		22,615
Operational Supplies & Exp Water Treat.	2,953	0		2,953
Operations Labor - Trans. & Dist.	113,624	0		113,624
Operational Supplies & Exp Trans. & Dist.	35,952	28,500		64,452
Maintenance of Meters	46	0		46
Operational Supplies & Exp Cust. Accounts	15,123	0		15,123
Uncollectible Accounts	2,353	0		2,353
Operations Labor - Admin. & Gen.	22,865	5,400		28,265
Operational Supplies & Exp - Admin. & Gen.	11,582	0		11,582
Outside Services	30,580	0		30,580
Property Insurance	8,479	Ō		8,479
Employee Pensions & Benefits	84,941	Ö		64,941
Regulatory Commission Expense	2,250	4,376		6,826
Misc. & Commissioner Fees	5,798	0		5,798
Transportation	83	Ō		83
Depreciation	137,905	79,758		217,861
Payroll & Other Taxes	18,380	o		16,380
Total Operating Expenses	\$803,828	\$118,032	•	\$721,658
Net Operating Income	\$65,328	\$152,486	•	\$217,814
Other Deductions:				
Long-Term Interest Expense	24,249	(24,249)		0
Other Interest Expense	374	(374)		ō
Net Income	\$40,705	\$177,109	•••	\$217,814
=			=	,

ATTACHMENT B STAFF REPORT CASE NO. 95-200 STAFF'S RECOMMENDED PRO FORMA OPERATIONS

	Actual Test Period Operations	Pro Forma Adjustments	foot- note Ref.	Pro Forma Operations
Operating Revenues:	**************************************	**************************************	********	***************************************
Revenue from Water Sales Service Fees & Penalties	\$643,072	\$195,730	A	\$838,602
	17,730	Ü		17,730
Sprinklers	1,298	0		1,298
Miscellaneous Income	594			894
Total Operating Revenues	\$662, 99 4	\$195,730	•	\$858,724
Operating Expenses:	*****************	**********	•	3 833847228238938049 8989
Salaries & Wages-Employees	\$195,660	\$6,304	В	\$201,984
Employee Pensions & Benefits	64,941	(8,799)	ē	56,142
Purchased Power	39,582	7,611	Ď	47,193
Operational Supplies & Exp.	76,934	(24,114)	Ē	52,620
Chemicals	22,615	(4,125)	#	18,490
Maintenance of Meters	46	(3,120)	•	46
Uncollectible Accounts	2,353	ŏ		2,353
Outside Services	30,580	ŏ		30,580
Ins Property	8,479	(656)	Ø	7,823
Ins Workers Compensation	0	10,903	H	10,903
Regulatory Commission Expense	2,250	(1,234)	- i	1,016
Misc. & Commissioner Fees	5,798	(634)	į	5,164
Transportation	53	0	•	83
Depreciation	137,905	130,884	K	268,789
Amortization	757,750	211	ï	211
Payroll & Other Taxes	16,380	482	M	16,862
Total Operating Expenses	\$603,828	\$116,633	•	\$720,459
Net Operating Income	\$59,368	\$78,897	•	\$138,285
Nonutility Income:				
Interest Income	6,960	0	_	5,960
Net Income Available for Debt Service	\$65,328	\$78, 89 7	•	\$144,225
	****************	*************	-	*******

A. Revenue from Water Sales:

On September 15, 1995, the Commission issued an Order approving Beaver-Eikhorn's proposed plant expansion to provide water service to an additional 747 customers. Staff's billing analysis reflects the test period water sales, the additional 747 customers, and Beaver-Eikhorn's current tariffed rate on file with the Commission.

Increment	Bilis	Gallons	1,000	19,000	30,000	50,000
First 1,000 Ga Next 19,000 Gal Next 30,000 Gal Next 50,000 Gal Over 100,000 Gal.	4,524 26,732 404 128 139	2,399,000 143,193,000 12,232,000 9,271,000 37,659,000	2,399,000 26,732,000 404,000 128,000 139,000	118,461,000 7,676,000 2,432,000 2,641,000	4,152,000 3,840,000 4,170,000	2,871,000 6,950,000
Totals	31,927	204,754,000	29,802,000	129,210,000	12,162,000	9,821,000

In	crement	Bills	Gallons	Rate	Revenue
First Next Next Next Over	1,000 Ga 19,000 Gal 30,000 Gal 50,000 Gal 100,000 Gal	31,927	29,802,000 129,210,000 12,162,000 9,821,000 23,759,000	\$12.49 \$2.24 \$2.05 \$1.73 \$1.54	\$398,768 289,430 24,932 16,990 36,589
Subto Whole Uncol		60	44,109,000	\$1.54	\$766,709 67,928 4,165
	i Revenues from Revenues from R			R-S	\$836,802 643,072
Staff's Rec	ommended Adju	ıstment			\$195,730

B. Salaries & Wages - Employees:

Beaver-Eikhom informed Staff that it did not intend to hire any new employees as a result of its expansion. Therefore, Staff's recommended pro forms salaries & wages - employees expense is based on the current employee level, the number of hours each employee worked in the test period, and the 1995 pay rates. Because of the lack of supporting documentation, Staff did not include additional employees or increased overtime hours that might result from Beaver-Eikhom's expansion.

	Pro Forma Salaries
	1114492304F1 04442025044114
Pumping Plant	\$63,418
Transmission & Distribution:	105,109
Office	33,457

Pro Forma Salaries & Wages-Employees	\$201,984
Reported Salaries & Wages-Employees	195,680
	900000000000000000000000000000000000000
Staffs Recommended Adjustment	\$6,304
	270000000000000000000000000000000000000

C. Employee Pension & Benefits:

This adjustment reflects Beaver-Eikhorn's 1995 health insurance premiums.

	Health Ins.	Life & AD&D	Monthly	Annual
	Sep '95 Prem.	Sep '95 Fee	Sep '95 Prem	Premiums
Pumping Plant	\$1,533	\$24	\$1,557	\$18,684
Transmission & Dist.	\$2,403	\$40	\$2,443	29,310
Office	\$663	\$16	\$679	8,148
Pro Forma Health Ins. Reported Health Ins. F			••	\$56,142 64,941
Staffs Recommended	Adjustment		B1	(\$8,799)

D. Purchased Power:

Beaver Elkhorn's test period line loss was 43.1 percent, which exceeds the allowable limit of 15 percent established by this Commission. When informed of the Commission's line loss limitation, Beaver-Elkhorn told Staff that it is taking the following corrective actions to lower lits line loss: (1) Replacing a large section of main from Allen to Martin: (2) Monitoring all water used by local fire departments; and (3) Keeping better records of all service and main line leaks. Staff review of the four previous annual reports reveals that excessive line loss is a historical problem Beaver-Elkhorn has been unable to control. Staff has adjusted the actual purchased power expense to recognize customer growth and the 15 percent line loss limitation on Beaver-Elkhorn's water production costs.

		Treatment Plant		Trans & Dist	Office
Service To:	Electric Ky Power	Electric Big Sandy	Gas East Ky	Electric Ky Power	Electric Ky Power
Mar-94	\$2,540	\$298	\$302	\$1,299	\$117
Apr-94	2,692	330	126	1,372	85
May-94	2,594	316	72	1,213	65
Jun-94	2,660	340	49	1,025	57
Jul-94	2,802	366	41	989	67
Aug-94	2,999	324	72	1,051	67
Sep-94	1,468	244	72	1,091	52
Oct-94	3,130	282	80	1,038	50
Nov-94	2,276	264	114	1,233	68
Dec-94	3,935	245	251	1,250	87
Jan-95	3,500	251	236	1,179	151
Feb-95	3,141	281	280	1,180	192
Tetale	\$33,737	\$3,541	\$1,692	\$13,920	\$1,058
Divided by	d Treatment Plant : Test Period Gali	- Electric ons Produced in The			\$37,278 359,520
Test Perlo Divided by Electric Co Test Perlo Water Sale	d Treatment Plant : Test Period Gali ost Per 1,000 Galid d Water Sales in 1	- Electric ons Produced in The ons ,000 Gallons ers in 1,000 Gallons		••••	\$37,278 359,520 \$0.104 204,643 44,820
Test Perlo Divided by Electric Co Test Perlo Water Sale Pro Forma Divided by	d Treatment Plant : Test Period Gali ost Per 1,000 Gali od Water Sales in 1 es to New Custom a Water Sales in 1,	- Electric ons Produced in The ons ,000 Gallons ers in 1,000 Gallons 000 Gallons Vater Production			\$37,278 359,520 \$0.104 204,643 44,820 249,463
Test Perlo Divided by Electric Co Test Perlo Water Sale Pro Forma Divided by Pro Forma Multiplied I	d Treatment Plant : Test Period Galicost Per 1,000	- Electric ons Produced in The ons ,000 Gallons ers in 1,000 Gallons Vater Production in 1,000 Gallons Per 1,000 Gallons			\$37,278 359,520 \$0.104 204,643 44,820 249,463 85% 293,486 \$0.104 \$30,523
Test Perlo Divided by Electric Co Test Perlo Water Sale Pro Forms Divided by Pro Forms Multiplied	d Treatment Plant Test Period Gali Ost Per 1,000 Ga	- Electric ons Produced in The ons ,000 Gallons ers in 1,000 Gallons Vater Production in 1,000 Gallons Per 1,000 Gallons			\$37,278 359,520 \$0.104 204,643 44,820 249,483 85% 293,486 \$0.104 \$30,523 1,692 14,978
Test Perlo Divided by Electric Co Test Perlo Water Sale Pro Forma Divided by Pro Forma Multiplied i Pro Forma Gas Electric Pro Forma	d Treatment Plant : Test Period Galicost Per 1,000	- Electric ons Produced in The ons ,000 Gallons ers in 1,000 Gallons 000 Gallons Vater Production in 1,000 Gallons Per 1,000 Gallons Electric			\$37,278 359,520 \$0.104 204,843 44,820 249,483 85% 293,486 \$0.104 \$30,523 1,692 14,978
Test Perlo Divided by Electric Co Test Perlo Water Sale Pro Forma Divided by Pro Forma Multiplied i Pro Forma Gas Electric Pro Forma	d Treatment Plant : Test Period Galicost Per 1,000 Galicost Plant - 1,000 Galicost P	- Electric ons Produced in The ons ,000 Gallons ers in 1,000 Gallons 000 Gallons Vater Production in 1,000 Gallons Per 1,000 Gallons Electric			\$37,278 359,520 \$0.104 204,643 44,820 249,483 85% 293,486 \$0.104 \$30,523 1,692 14,978

E. Operational Supplies & Exp:

This adjustment reflects: (1) Misclassified electric and gas payments have been removed and included in the determination of pro forma purchased power expense; (2) Payments to Porter Industries were for a pump station that was capitalized in the test period. Because accounts payable installments are not considered an operating expense, payments made to Porter Industries have been removed; (3) In 1995 Beaver-Elkhorn purchased a computer program and began to perform its customer billing in-house. Therefore, payments made to Computer & Utility Service have been eliminated. (4) Postage expense has been adjusted to reflect the proforma level of customers and the current postage rate. (5) At the end of 1995, Beaver-Elkhorn moved into a new office. Rent expense has been adjusted to reflect Beaver-Elkhorn's increased rent of \$700 per month.

 Electric & Gas: Porter - Payments on Account for Pump Station Computer & Utility Service Postage: 		(\$17,017) (3,000) (10,725)
Pro Forma # of Bills	32,244	
Current Postage Rate	\$0.19	
	***********	•
Pro Forma Postage Expense	\$6,126	
Reported Postage Expense	4,448	
Postage Expense Adjustment 5) Office Rent:		1,678
Monthly Rent	\$700	
Multiplied by: 12 Months	12	
	UUUUNAA AAAAAAAAAAAA	•
Pro Forma Rent	\$8,400	
Reported Office Rent	3,450	
Office Rent Adjustment		4,950
Staff's Recommended Adjustment		(\$24,114)
		^

F. Chemicals:

Staff has adjusted the chemical expense to recognize customer growth and the 15 percent limitation on Beaver-Elkhorn's water production costs.

Test Period Chemical Cost Divided by: Test Period Gallons Produced in 1,000 Gallons	22,615 359,520
Chemical Cost Per 1,000 Gallons Multiplied by: Pro Forma Water Production in 1,000 Gallons	\$0.063 293,486
Pro Forma Chemical Expense Reported Chemical Expense	\$18,490 22,615
Staff's Recommended Adjustment	(\$4,125)

G. Ins. - Property

This adjustment is based on Staff's analysis of Beaver-Eikhorn's 1995 insurance premiums.

Walter P. Walters Eff. 3/25/95 Walter P. Walters Eff. 3/25/95 Commissioners Bond	Multi Peril Com. Automobile	CPP1164357 CBA1164357	\$4,663 2,956 204
Current Insurance Premiums Reported Ins - Property			\$7,823 8,479
Staff's Recommended Adjustment			(\$656)

H. Ins. - Workers Compensation:

This adjustment reflects Beaver-Eikhorn's current workers' compensation premiums and pro forma labor expense.

	Pro Forma Payroll	Rate per \$100	Pro Forma Premium
Waterworks Operation & Drivers Clerical Office Employees	\$168,527 \$33,457	\$6.85 \$0.50	\$11,544 167
Premium Subject to Modification Experiences Modification Factor			\$11,711 86%
Pro Forma Standard Premium Premium Discount 2.7% Expense Constant			\$10,071 272 140
Pro Forma Annual Premium Assessment	9,939	× 9.7% =	\$9,939 964
Pro Forma Workers' Comp Premium			\$10,903

1. Regulatory Commission Expense:

Beaver-Eikhorn is seeking to amortize accounting fees of \$19,878 incurred in Case No. 92-129 over a 3 year period. The fees were paid in the year incurred, and therefore have already been recovered from Beaver-Eikhorn's customers. While Beaver-Eikhorn will require the services of its accountant in the future, it is highly unlikely that Beaver-Eikhorn will pay accounting fees of this magnitude on a recurring basis; the accounting fees paid to date in this proceeding are \$3,049. Furthermore, allowing Beaver-Eikhorn to recover the cost of Case No. 92-129 from its current and future customers would constitute retroactive rate-making. For these reasons, amortization of the cost of Case No. 92-129 is not included in pro-forma operations. However, the cost of this case has been amortized over 3 years.

Cost of Current Rate Case - Accounting Fee Divided by: Recommended Period	\$3,049 3
Amortization Expense - Current Rate Case Reported Amortization Expense - Case No. 92-129	\$1,016 2,250
Staff's Recommended Adjustment	(\$1,234)

J. Mlsc. & Commissioner Fees:

Non-recurring costs have been removed from test period operations and amortized.

Advertisements for Bids - Floyd County Newspapers

(\$634)

K. Depreciation:

This adjustment reflects: (1) In this current case, Beaver-Elkhorn has been granted a Certificate to extend its distribution system. Since revenues and expenses recommended herein have been adjusted to reflect the additional customers related to the distribution system expansion, depreciation expense has likewise been adjusted; and (2) Beaver-Elkhorn's on-going level of depreciation expense from the 1995 depreciation schedule included in the application.

Phase III Water Line Extension Cost Divided by: Estimate Useful Life in Years	\$ 4,34 9 ,011 5 0
Pro Forma Depreciation Expense - Phase III Add: Depreciation Expense per 1995 Schedule	\$86,980 181,809
Pro Forma Depreciation Expense Less: Test Period Depreciation Expense	\$268,769 137,905
Staff's Recommended Adjustment	\$130,884

L. Amortization:

This adjustment reflects amortizing the cost to place the newspaper advertisements over a 3 year period to coincide with the rate case amortization.

	Cost of Advertisements	Amortization Period	Amorti: Exp s	nse
Newspaper Advertisements	\$834		3	\$211

M. Payroll Taxes:

This adjustment reflects the additional FICA expense that will result from the increase to Beaver-Eikhorn's operations labor expense.

Pro Forma Salaries & Wages - Emp. Adj. Multiplied by: Current FICA Rate	\$6,304 7.65%
Staff's Recommended Adjustment	\$482

ATTACHMENT C STAFF REPORT CASE NO. 95-200 COMPARISON OF THE REVENUE REQUIREMENTS

Beaver-Eikhorn's Revenue Requirement: Debt Service: First Guaranty National Bank Kentucky Infrastructure Authority: Phase I & II Phase III	\$60,000 71,809 149,178
Total Annual Debt Service Multiplied by: Requested Coverage	\$280,987 1.2
Requested Debt Service Coverage Amount Add: Adjusted Operating Expenses	\$337,184 721,658
Required Revenue Less: Adjusted Revenues	\$1,058,842 939,472
Requested Increase	\$119,370
Staff's Revenue Requirement: Debt Service: First Guaranty National Bank Kentucky Infrastructure Authority: Phase I & II Phase III	\$60,000 69,218 * 143,796 *
Total Debt Service Multiplied by: 1.2 Coverage	\$273,012 1.2
Subtotal Adjusted Operating Expenses	\$327,614 720,459
Revenue Requirement Less: Adjusted Operating Revenue Interest Income	\$1,048,073 858,724 5,960
Recomended Revenue Increase	\$183,389

[•] Staff's KIA debt service is from the principal and interest calculation contained on the Phase II and Phase III amortization schedules.

ATTACHMENT D

BILLING ANALYSIS - BEAVER ELKHORN WATER DISTRICT STAFF RECOMMENDED REVENUE

Recommended Rates

A limited cost of service study was performed on Beaver-Elkhorn. The study showed that, in order for Beaver-Elkhorn to recover its customer costs and the cost of providing 1,000 gallons of water, the last 3 rate increments should be increased by a higher percentage than the first rate increment. Since there is no considerable difference between providing water for the 30,000 and 50,000 gallon increments, they have been consolidated into one step.

USAGE TABLE

INCREMENT	BILLS	GALLONS	1,000	19,000	80,000	100,000
FIRST 1,000	4,524	2,399,000	2,399,000			
NEXT 19,000	26,732	143,193,000	26,732,000	116,461,000		
NEXT 80,000	532	21,503,000	532,000	10,108,000	10,863,000	
NEXT 100,000	139	37,659,000	139,000	2,641,000	11,120,000	23,759,000
TOTAL	31,927	204,754,000	29,802,000	129,210,000	21,983,000	23,759,000

REVENUE TABLE REVENUE BY RATE INCREMENT

	BILLS	GALLONS	RATE	REVENUE
1,000	31,927	29,802.0	\$14.10	\$450.171
19,000		129,210.0	2.94	379,877
80,000		21,983.0	2.57	56,496
100,000		23,759.0	2.00	47,518
SUBTOTAL		204,754.0		\$934,062
WHOLESALE	3 60	44,109.0	2.00	88,218
TOTAL			\$	1,022,280